ABSTRACT

The present invention relates to a block copolymer having at least one block having an acid group and at least one block having substantially no acid group, wherein one end group of a repeating unit in at least one block of all blocks is oxygen and/or sulfur, and at least one repeating unit of a block having substantially no acid group contains a halogen atom. The block copolymer of the present invention gives a polymer electrolyte membrane which is excellent not only in heat resistance and proton conductivity but also in water resistance and chemical stability, and is useful as an electrolyte for a proton conducting membrane etc. of a fuel cell.